

APRIL/MAY 2025

**23UEMB32 — CLINICAL LABORATORY
TECHNOLOGY (Elective III)**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define infection.
2. Expand the terms PPF and QMP.
3. Differentiate plasma and serum.
4. What are anticoagulants? Give any two examples?
5. Brief the term impregnation.
6. Mention the importance of dehydration in histopathology.
7. Brief the role of fibrinogen in blood clotting.
8. Define clotting time.



9. Expand ISO.
10. Mention the job of accreditation bodies.

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) State the rules followed in the clinical laboratory in analyzing the sample.

Or

- (b) Explain the organization of clinical laboratory.

12. (a) List out the clinical findings analyzed from plasma sample.

Or

- (b) Discuss the collection procedure and the importance of CSF.

13. (a) Explain the tissue processing steps followed in histopathology.

Or

- (b) Elaborate the importance of dehydration in histology with example.

14. (a) Discuss the protocol for the estimation of fibrinogen.

Or

- (b) Give the normal level and significance of platelets.

15. (a) Write notes on CAP.

Or

- (b) Give an account on ISO.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss the maintenance of hygiene and Infection Control Practices followed in clinical laboratory.

17. Discuss the factors which affect the clinical results in analysis in-detail

18. Elaborate embedding and sectioning of tissue samples in histopathology.

19. Discuss the blood coagulation disorders in humans.

20. State the steps followed in the preparation approval authentication for running the clinical laboratory.

